<u> Claims</u>:

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1	1. A printed circuit board for an ultra	asonic array
2	comprising:	one end of

an array of contact elements located at one end of said 3 printed circuit board for contact with corresponding 4 elements of said ultrasonic array; 5

a connector at an end opposite said array of contact 6 elements; 7

a top layer and a bottom layer each being a ground plane; and

at least one internal layer between said top layer and said bottom layer and carrying thereon printed circuit lines connecting said array of contact elements with said connector.

- The printed circuit board of claim 1, wherein said at least one internal layer includes two layers with half of said contact elements being connected to lines on each layer.
- The printed circuit board according to claim 1, 1
- wherein said printed circuit board is flexible. 2
- The printed circuit board according to claim 1, 4. 1 wherein said printed circuit board is rigid. 2

- The printed circuit board according to claim 1, 1 wherein said contact elements are contact pads. 2
- An ultrasonic receiver apparatus, comprising: 1
- a printed circuit board; 2

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- an array of ultrasonic elements mounted at one end of 3 said printed circuit board; 4
- printed circuit lines carried by said printed circuit 5 . board, with each line being connected to one of said 6 ultrasonic array elements; 7
 - a multiplexer connected to said printed circuit lines for connecting one line at a time to a receiving device; and
 - a switch unit for connecting each of said printed circuit lines to ground except for said line connected by said multiplexer to said receiving unit.
 - The system according to claim 6, wherein said circuit board further includes a top ground plane and a bottom ground plane on opposite sides of said printed circuit lines.
 - The system according to claim 6, wherein said 8. circuit board carries a connector at an end opposite said array for connection to said printed circuit lines and wherein said multiplexer is connected through a cable to a second connector mateable with said first connector. 5

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- 9. The system according to claim 6, wherein said multiplexer and said switch unit are connected to an address input for receiving the same address.
- 10. A method for reducing noise in a printed circuit board carrying an ultrasonic receiver array, comprising:
- printing circuit lines on a printed circuit board for connection with elements of said ultrasonic array;
 - placing said printed circuit lines between an upper ground plane and a lower ground plane;

connecting said printed circuit lines to a multiplexer for selecting one of said lines at a time for connection to a receiving unit; and

connecting all of said printed circuit lines except said selected line to ground in order to eliminate noise.